



# Call for Papers ACM/Springer Mobile Networks & Applications (MONET)

## SPECIAL ISSUE ON

### *Big Data Technologies and Applications*

<http://www.springer.com/engineering/signals/journal/>

#### Overview:

Due to the explosive evolution of Information Technology and Computer Science, we have entered in Big Data Age, and this is really a scientific revolution, not just a fashion. As always, the technological aspects evolve faster than the scientific community mentality. Transforming Big Data into Big Knowledge and developing a Knowledge-Based System require new visions and approaches. Companies, facing the Big Data challenges, are moving faster in the right direction than the scientific community, being under a stronger competitive pressure. They were forced to renounce to wishful thinking, like the idea that a few variables, embedded in a few rules, discovered using the old fashion statistics, will give intelligent support for business decisions. We have to do the same for developing various applications. Moreover, motivated by the big data analytics needs, new computing and storage technologies are developing rapidly and pushing for new high-end hardware geared toward big data problems. While the high performance computing technologies have the potential to greatly improve effectiveness of big data analytics, the cost and sophistications of those technology and limited initial application support often make them inaccessible to the end users and not fully utilized in academia years later. Meanwhile, comprehensive analytic software environment and platforms, such as R and Python, have become increasingly popular open-source platforms for data analysis. Also, Computational Intelligence (CI) methodologies, tailored to Big Data, and combined with a proper vision of living systems, e.g., as complex dynamical systems or networks of interacting entities, could pave the way to Knowledge-Based System.

#### Topics

Topics of interest include, but are not limited to, the following scope:

- Data Visualization and Visual Analytics	- Structured and Unstructured Data/Text/Web Mining
- Natural Language Processing in Big Texts	- Deep Learning architecture, representations, unsupervised and supervised algorithms
- Biomedical imaging preprocessing and Analysis	- Novel CI approaches for data analysis
- Hardware and Software solutions for Big Data Searching, Storing and Management	
- Scalable computational intelligence tools	

#### Important Dates:

- **Manuscript submission deadline: December 15<sup>th</sup>, 2016**
- Notification of acceptance: April 30<sup>th</sup>, 2017
- Submission of final revised paper: May 30<sup>th</sup>, 2017
- Publication of special issue (tentative):

#### Submission Procedure:

Authors should follow the MONET Journal manuscript format described at the journal site:

<http://www.springer.com/engineering/signals/journal/11036>. Manuscripts should be submitted on-line through

<http://www.editorialmanager.com/mone/>. When submitting papers, authors should choose article type as “SM 172 – Big Data Technologies and Applications”. A copy of the manuscript should also be emailed to the following email: [j2jung@gmail.com](mailto:j2jung@gmail.com).

#### Guest Editors:

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<http://www.springer.com/journal/11036>

Mobile Networks and Applications

The Journal of SPECIAL ISSUES on Mobility of Systems,

Users, Data and Computing

Editor-in-Chief: Chlamtac, I.

ISSN: 1383-469X (print version)

ISSN: 1572-8153 (electronic version)

Journal no. 11036